FORM PTO-1390 OFFICE 4 1 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADE 32860-000901/US (Modified) TRANSMITTAL LETTER TO THE UNITED STATES U.S. APPLICATION NO. (If known, see 37 CFR 1.5) DESIGNATED/ELECTED OFFICE (DO/EO/US) NEW APPLICATION CONCERNING A FILING UNDER 35 U.S.C. 371 INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE PRIORITY DATE CLAIMED PCT/DE2003/004127 **December 15, 2003 December 19, 2002** TITLE OF INVENTION DNA CHIP COMPRISING A MICROARRAY MADE OF AN MICROELECTRODE SYSTEM APPLICANT(S) FOR DO/EO/US Walter GUMBRECHT, Konrad MUND, Meinrad SCHIENLE and Roland THEWES, Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: This is a FIRST submission of items concerning a filing under 35 U.S.C. 371. This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371. This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39 (1). The US has been elected by the expiration of 19 months from the priority date (Article 31). A copy of the International Application as filed (35 U.S.C. 371(c)(2)) is transmitted herewith (required only if not transmitted by the International Bureau). WO 2004/057334A1 has been transmitted by the International Bureau. is not required, as the application was filed in the United States Receiving Office (RO/US). 6. An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). is transmitted herewith. has been previously submitted under 35 U.S.C. 154(d)(4) Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)). are transmitted herewith (required only if not transmitted by the International Bureau). have been transmitted by the International Bureau. have not been made; however, the time limit for making such amendments has NOT expired. d. | have not been made and will not be made. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

17. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1,821-1,825. 18. A second copy of the published international application under 35 U.S.C. 154(d)(4). 19.

Items 11. to 20. below concern document(s) or information included:

A SECOND or SUBSEQUENT preliminary amendment.

A change of power of attorney and/or address letter.

A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).

11. An Information Disclosure Statement under 37 CFR 1.97 and 1.98-1449, International Search Report (PCT/ISA/210),

An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.

PTO Form 1449 w/ Five (5) References, German Office Action dated 03-24-2005 and German Translation Aid

20. 🔀 Other items or information: 1) Formal Drawings (7 Sheets)

A FIRST preliminary amendment.

A substitute specification.

13. 14.

15.

16.

JC05 Rec'd PCT/PTO 20 JUN 2005

40/530817								
U.S. APPLICATION NEW APPLICATION			INTERNATIONAL APPLICATION NO			ATTORNEY'S DOCKET NUMBER		
K-7		PCT/DE2003/004127			32860-00901/US CALCULATIONS PTO USE ONLY			
21. The following fees are submitted:						LCULATIONS	PTO USE ONLY	
PCT FEES – NATIONAL STAGE:								
Fee Code I	<u>Description</u>	<u>Fee</u>						
1631 Basic National Stage Fee\$300.00 1632 National Stage Search Fee\$500.00 1633 National Stage Examination Fee\$200.00								
ENTER APPROPRIATE FEE AMOUNT =						1000.00		
Surcharge of \$130.00 for furnishing the oath or declaration later than 20 Months from the earliest claimed priority date (37 CFR 1.492(e)).					\$	130.00		
			EXTRA PAGES	-				
PAGES	PAGES FILE	ED	FILED IN 50 PAGE SEGMENTS	RATE				
Total Pages	23 - 100 =		0	X 250.00	\$	0.00		
CI AING	NIII (DED EU	ED	MIN (DED EXTER)	D 4 (T) D				
CLAIMS Total Claims	NUMBER FIL 18 - 20 =	ED	NUMBER EXTRA 0	RATE X \$50.00	\$	0.00		
Independent Claims 1 - 3 =			0	X \$200.00	\$	0.00		
MULTIPLE DEPENDENT CLAIM(S) (if applicable) + \$360.00					\$	0.00		
THE DELICATION (II applicatio)					9	0.00		
TOTAL OF ABOVE CALCULATIONS =					\$	1130.00		
Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.					\$	u .		
SUBTOTAL =					\$	1130.00		
Processing fee of \$130.00 for furnishing the English translation later than \[\begin{aligned} \Boxed{20} \] Months from the earliest claimed priority date (37 CFR 1.492(f)).					\$			
TOTAL NATIONAL FEE =						1130.00	-	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +					\$ \$	0.00		
TOTAL FEES ENCLOSED =						1130.00 Amount to be:	-	
						refunded	\$	
· · · · · · · · · · · · · · · · · · ·			:			charged	\$	
a. A check in the amount of \$1130.00 to cover the above fees is enclosed.								
b. Please charge my Deposit Account. No. 08-0750 in the amount of \$ to cover the above fees. A triplicate copy of this sheet is enclosed.								
c. Mathe Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>08-0750</u> .								
NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.								
Send all correspondence to: Harness, Dickey & Pierce, P.L.C – Customer No. 30596								
Post Office Box 8910 Reston, Virginia 20195								
•					1.11)/1			
DJD/let	ws			By Donald J. Daley, Reg. No. 34,313				

GERMAN TRANSLATION AID

Es bedeutet: (It means:)

X: Druckschriften, die Neuheit oder Erfindungshöhe allein in Frage stellen

(Publications, which question novelty or just obviousness)

Y: Druckschriften, die die Erfindungshöhe züsammen mit anderen Druckschriften in Frage stellen

(Publications which, together with other publications, question obviousness)

A: Allgemein zum Stand der Technik, technologischer Hintergrund

(General state of the art, technological background)

O: Nicht-schriftliche Offenbarung, z. B. ein in einer nachveröffentlichten Druckschrift abgedruckter Vortrag, der vor dem Anmelde- oder Prioritätstag öffentilich gehalten wurde

(Non-written disclosure, for example, a printed post publication of a lecture which was publicly made before the filing date or priority date)

P: Im Prioritätsintervall veröffentichte Druckschriften

(Publications publicized in a priority interval)

T: Nachveröffentlichte, nicht kollidierende Druckschriften, die die Theorie der angemeldeten Erfindung betreffen und für ein besseres Verständnis der angemeldeten Erfindung nützlich sein können bzw. zeigen daß der angemeldeten Erfindung zugrunde liegende Gedankengänge oder Sachverhalte falsch sein könnten

(Post publications, not anticipating publications, which refer to the theory of the filed invention and which refer could be useful for a better understanding or, as the case may be, which could show that reasoning or facts of the filed invention are incorrect)

E: Ältere Anmeldungen gemäß §3 Abs.2 PatG (bei Recherchen nach § 43 PatG); ältere Patentanmeldungen oder ältere Gebrauchsmuster gemäß § 15 GbmG (bei Recherchen nach § 7 GbmG)

(Older applications under § 3 section 2 PatG (inquiries under § 43 PatG); older patent applications ir patents under § 15 GbmG (inquiries under § 7 GmbG))

nr:

D: Druckschriften, die bereits in der Patentmeldung genannt sind

(Publications, which are cited in the patent application)

L: Aus besonderen Gründen genannte Druckschriften, z. B. zum Veröffentlichungstag einer Entgegenhaltung oder bei Zweifeln an der Priorität.

(Publications which are cited for a particular reason, for example, relative to the publication date of a reference or cast doubt on the priority)

Veröff: Veröffentlichungstag einer Druckschrift im Prioritätsintervall

(Publication date of a publication in a priority interval)

Nicht recherchiert, da allgemein bekannter Stand der Technik,

oder nicht recherchierbar

(Not searched, because it is known state of the art, or cannot be

searched)

=: Druckschriften, die auf dieselbe Ursprungsanmeldung

zuzrückgehen ("Patentfamilien"), oder auf die sich Referate

oder Abstracts beziehen.

(Publications, which refer to the same original application

("patent family"), or which are referred to in reviews or

abstracts.)

"-": Nichts ermittelt

(Nothing discovered)

Hier sind die Ansprüche unter Zuordnung zu den in Spalte 2 genannten relevanten Stellen angegeben.

(The claims are stated herein which refer to the relevant positions recited in column 2.)

GERMAN TRANSLATION AID Page 3 of 3

Seite

(page)

Zeile

(line)

Abbildungen

(Drawings)

Spalte

(Column)

Absatz

(Paragraph)

Zumsammenfassung (Abstract of Disclosure)